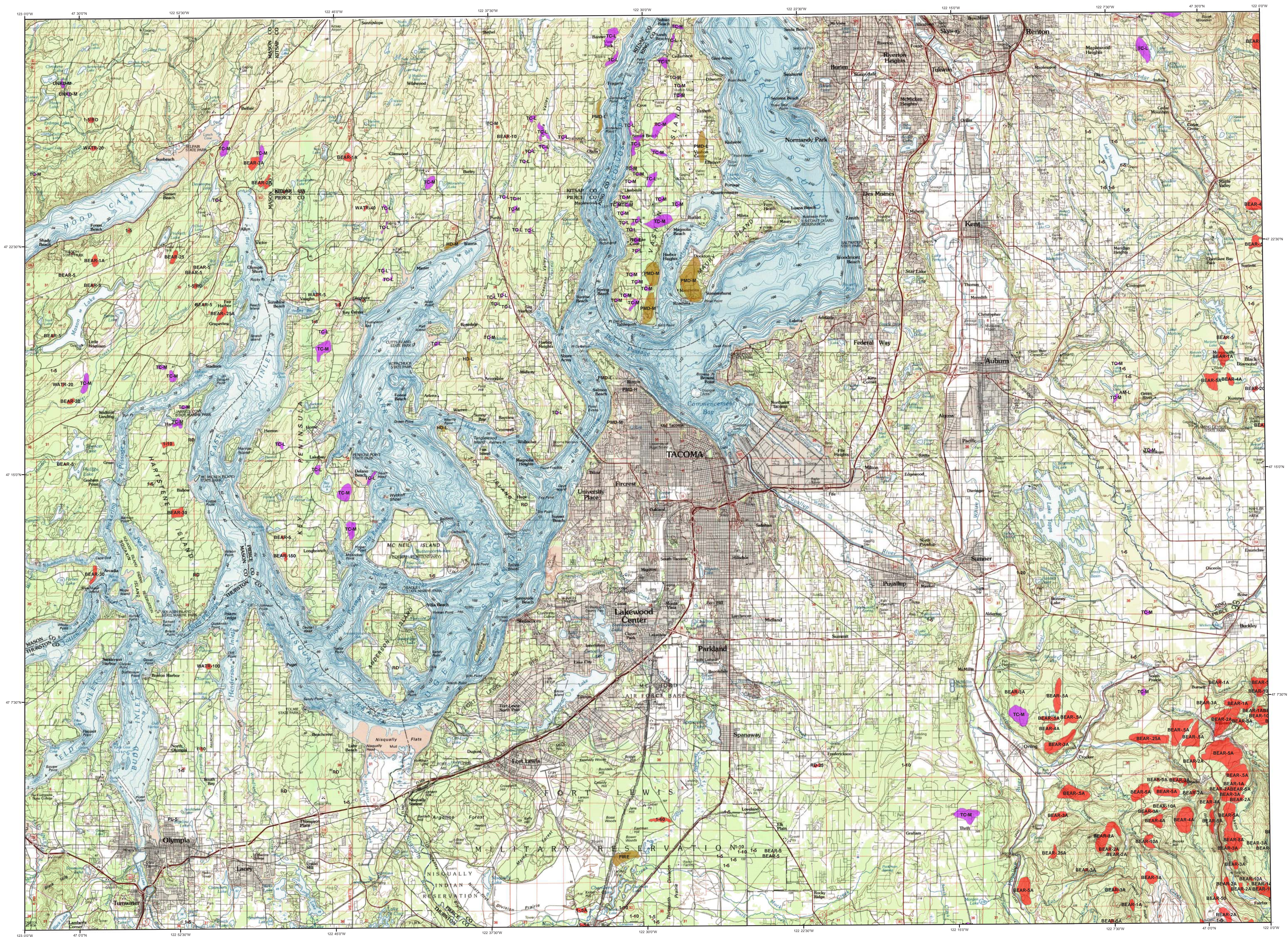


# 2003 Aerial Insect and Disease Survey Tacoma - Quad 3D



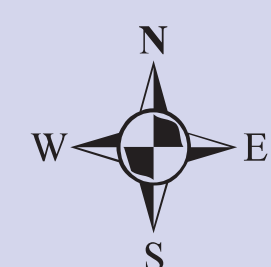
## Legend

## Defoliating Agents\*

**Code; Agent; Primary Host(s)**  
 TC; tent caterpillar; deciduous trees  
 UNKD; unknown defoliator; all species

## Other Damaging Agents\*

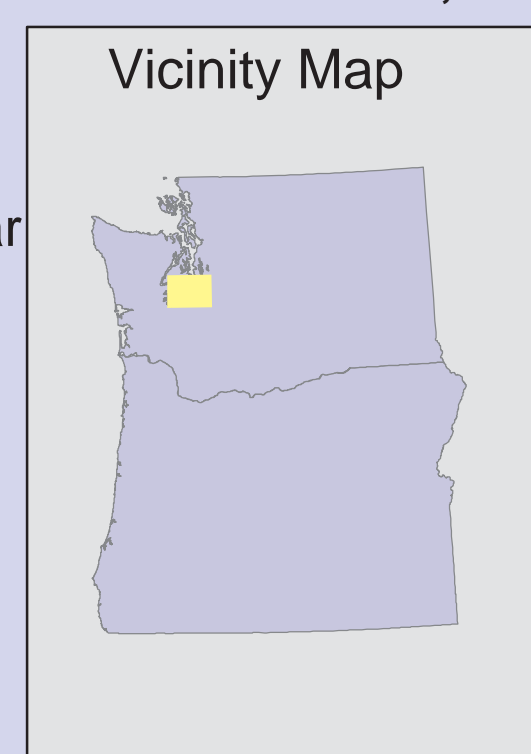
**Code; Agent; Primary Host(s)**  
 AM; maple discoloration; big leaf maple  
 FIRE; fire; all species  
 HD; hardwood decline; hardwoods  
 PMD; Pacific madrone decline; Pacific madrone



## Mortality Agents\*

**Code; Agent; Primary Host(s)**  
 1; Douglas-fir beetle; Douglas-fir  
 BEAR ; bear; conifer species  
 PL; Port Orford cedar root disease; Port Orford cedar  
 RD; root disease; conifer species  
 WATR; water damage; all species

Map base data is from the National Geographic TOPO! series for Oregon and Washington.



A data dictionary and digital copies of this map and the insect and disease data are available at: [www.fs.fed.us/r6/nr/fid/as/](http://www.fs.fed.us/r6/nr/fid/as/)

USGS 100K Quad - Tacoma; 3D  
2003 Aerial Insect and Disease Detection Survey  
Mapscale: 1:100,000  
Date: November 18, 2003

## How the Aerial Surveys Are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service and the Washington Department of Natural Resources. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

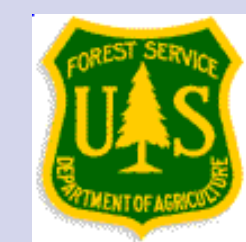
Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

DIRECT ALL INQUIRIES TO:

Washington State Department of  
Natural Resources  
Resource Protection  
Forest Health  
1111 Washington St. SE  
Olympia, WA 98504

-- OR --

USDA Forest Service, Region 6  
Natural Resources  
Forest Health Protection  
PO Box 3623  
Portland, Oregon 97208



\*\*\*\*\*DISCLAIMER\*\*\*\*\*

The insect and disease data presented should only be used as an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield inaccurate or misleading results.